

(42)

Bruhat Bangalore Mahanagara Palike							
BYTARAYANAPURA DIVISION							
Job No: 007-16-000043 26618							
Name of Agency :- Benaka Developers and projects Pvt. Ltd							
Bill No :- 4th & Part Bill							
Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&I WTD SR 2016-17)						
Measurements recorded on:							
	Desilt	Cum					
	7th cross road Devinagara						
	LHS 0-30		1	30.00	0.60	0.30	5.40
	30-60		1	30.00	0.60	0.40	7.20
	60-90		1	30.00	0.60	0.50	9.00
	90-104.5		1	14.50	0.60	0.50	4.35
	RHS 0-30		1	30.00	0.60	0.65	11.70
	30-60		1	30.00	0.60	0.45	8.10
	60-90		1	30.00	0.60	0.45	8.10
	90-100		1	10.00	0.60	0.50	3.00
	6th cross Devinagara						
	LHS 0-30		1	30	0.60	0.50	9.00
	30-60		1	30	0.60	0.45	8.10
	60-90		1	30	0.60	0.50	9.00
	90-120		1	30	0.60	0.70	12.60
	120-135		1	15	0.70	0.50	5.25
	135-136.80		1	6.8	0.70	0.45	2.14
	RHS 0-30		1	30	0.60	0.50	9.00
	30-60		1	30	0.60	0.50	9.00
	60-90		1	30	0.60	0.50	9.00
	90-120		1	30	0.60	0.50	9.00
	120-135		1	15	0.65	0.50	4.88
	135-136.80		1	6.8	0.60	0.50	2.04



Assistant Engineer 11/10

Assistant Executive Engineer
11/10

(43)

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	3rd cross road Muneshwara Block						
	LHS 0-30		1	30	0.60	0.50	9.00 ✓
	30-45		1	15	0.60	0.45	4.05 ✓
	45-53.9		1	8.9	0.60	0.50	2.67 ✓
	4th cross road RR						
	LHS 0-30		1	30	0.60	0.50	9.00 ✓
	30-60		1	30	0.60	0.50	9.00 ✓
	60-90		1	30	0.60	0.40	7.20 ✓
	90-105.70		1	15.7	0.60	0.50	4.71 ✓
	RHS 0-30		1	30	0.60	0.50	9.00 ✓
	30-60		1	30	0.60	0.50	9.00 ✓
	60-90		1	30	0.60	0.50	9.00 ✓
	90-105.70		1	15.7	0.60	0.50	4.71 ✓
	5th cross road Muneshwara Block						
	LHS 0-30		1	30	0.60	0.45	8.10 ✓
	30-60		1	30	0.60	0.50	9.00 ✓
	60-90		1	30	0.60	0.50	9.00 ✓
	90-99		1	9	0.60	0.50	2.70 ✓
	6th cross Road Muneshwara Block						
	LHS 0-30		1	30	0.50	0.40	6.00 ✓
	7th cross road Muneshwara Block						
	LHS 0-30		1	30	0.60	0.50	9.00 ✓
	30-60		1	30	0.60	0.50	9.00 ✓
	60-90		1	30	0.60	0.50	9.00 ✓
	90-105		1	15	0.60	0.50	4.50 ✓
	105-120		1	15	0.60	0.50	4.50 ✓
	120-133.6		1	13.6	0.60	0.50	4.08 ✓
	RHS 0-30		1	20	0.60	0.50	6.00 ✓
	30-60		1	30	0.60	0.50	9.00 ✓
	60-90		1	30	0.60	0.50	9.00 ✓
	90-110		1	20	0.60	0.50	6.00 ✓
	110-130		1	20	0.60	0.45	5.40 ✓
	Over Burden Earth						
	7th cross road Devinagara						
			3	5.1	1.85	0.20	5.66 ✓
			2	6.5	1.50	0.30	5.85 ✓



Consultant



Assistant Engineer

1/10

 Assistant Executive Engineer
 Kodigehalli Sub Division

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
			3	8	1.85	0.25	11.10
			2	7.4	1.50	0.30	6.66
			2	8.5	2.10	0.25	8.93
			3	8.2	1.70	0.20	8.36
			2	7.8	1.85	0.30	8.66
			2	8.2	1.80	0.30	8.86
	6th cross Devinagara						
			3	7.2	1.80	0.30	11.66
			3	8.4	1.90	0.30	14.36
			4	6.8	1.65	0.30	13.46
			2	8.1	1.80	0.30	8.75
			3	6.5	1.90	0.30	11.12
			3	7.3	1.95	0.30	12.81
			2	8.5	2.00	0.30	10.20
			3	7.5	1.85	0.30	12.49
			5	8.1	1.60	0.30	19.44
			2	8.8	2.00	0.30	10.56
			3	8.5	1.90	0.30	14.54
			2	7.5	1.75	0.30	7.88
	5th cross road Muneshwara Block						
			4	8.10	1.85	0.30	17.98
			2	9.00	2.10	0.30	11.34
			3	8.00	1.75	0.30	12.60
			3	7.20	1.80	0.25	9.72
	3rd cross road Muneshwara Block						
			1	6.50	1.65	0.25	2.68
			2	6.80	1.85	0.30	7.55
			1	5.55	1.90	0.25	2.64
	4th cross road RR Muneshwara Block Motappa Layout						
			1	6.50	1.70	0.30	3.32
			3	8.20	1.80	0.30	13.28
			3	7.60	1.65	0.25	9.41
			4	8.20	2.00	0.35	22.96
			3	6.80	1.85	0.30	11.32
			3	5.50	2.00	0.30	9.90
			2	7.20	1.90	0.30	8.21
			4	8.00	1.75	0.30	16.80



Consultant



Assistant Engineer

4/10

Assistant Executive Engineer

Assistant Executive Engineer

Bill No :- 4th & Part Bill

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	6th cross Road Muneshwara Block						
			3	6.50	1.70	0.25	8.29
	7th cross road Muneshwara Block						
			5	8.20	1.80	0.30	22.14
			3	6.50	1.90	0.30	11.12
			3	8.00	2.00	0.30	14.40
			2	7.55	1.85	0.30	8.38
			2	8.40	1.60	0.30	8.06
			4	7.50	1.75	0.30	15.75
					Total Qty Cum		792.65



H. S. S.
Consultant



G. M. S.
Assistant Engineer

4/10

S. S. S.
Assistant Executive Engineer
Kodigehalli Sub Division,
B. R. M. P.

(46)

Bill No :- 4th & Part Bill							
Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&I WTD SR 2016-17)						
	Measurements recorded on:						
	BS Slab Drain						
	7th cross road Devinagara						
	LHS Drain 30-60 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	60-90 Bottom		1	20	0.45		9.00
	Sides		2	30	0.45		27.00
	RHS Drain 0-30 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	60-90 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	6th cross Devinagara						
	LHS 0-30 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	30-60 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	60-90 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	90-120 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	120-135 Bottom		1	15	0.45		6.75
	Sides		2	15	0.45		13.50
	135-136.80 Bottom		1	1.8	0.45		0.81
	Sides		2	1.8	0.45		1.62
	RHS 0-30 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	30-60 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	60-90 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00



Consultant



Assistant Engineer

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 Assistant Executive Engineer
 Kodigehalli Sub Division.

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	90-120 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	120-135 Bottom		1	15	0.45		6.75
	Sides		2	15	0.45		13.50
	135-136.80 Bottom		1	1.8	0.45		0.81
	Sides		2	1.8	0.45		1.62
	3rd cross road Muneshwara Block						
	LHS 0-30 Bottom		1	15	0.45		6.75
	Sides		2	15	0.45		13.50
	30-45 Bottom		1	5	0.45		2.25
	Sides		2	5	0.45		4.50
	4th cross road RR Muneshwara Block Motappa						
	LHS 0-30 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	30-60Bottom		1	20	0.45		9.00
	Sides		2	20	0.45		18.00
	RHS						
	30-60 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	60-90Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	90-100 Bottom		1	10	0.45		4.50
	Sides		2	10	0.45		9.00
	5th cross road Muneshwara Block						
	LHS 60-90 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00



Consultant



Assistant Engineer

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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.R.M.P.

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	7th cross road Muneshwara Block						
	LHS 30-60 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	30-60 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	60-90 Bottom		1	30	0.45		13.50
	Sides		2	30	0.45		27.00
	90-100 Bottom		1	10	0.45		4.50
	Sides		2	10	0.45		9.00
	RHS 30-60 Bottom		1	10	0.45		4.50
	Sides		2	10	0.45		9.00
	30-60 Bottom		1	10	0.45		4.50
	Sides		2	10	0.45		9.00
	60-90 Bottom		1	20	0.45		9.00
	Sides		2	20	0.45		18.00
	Missing slabs						
	7th cross road Devinagara						
	LHS Drain 30-60 Bottom		1	13	0.45		5.85
	Sides		2	11	0.45		9.90
	60-90 Bottom		1	10	0.45		4.50
	Sides		2	7	0.45		6.30
	RHS Drain 0-30 Bottom		1	12	0.45		5.40
	Sides		2	11	0.45		9.90
	60-90 Bottom		1	8	0.45		3.60
	Sides		2	10	0.45		9.00
	6th cross Devinagara						
	LHS 0-30 Bottom		1	14	0.45		6.30
	Sides		2	11	0.45		9.90
	30-60 Bottom		1	16	0.45		7.20
	Sides		2	8	0.45		7.20
	60-90 Bottom		1	14	0.45		6.30
	Sides		2	10	0.45		9.00
	90-120 Bottom		1	10	0.45		4.50
	Sides		2	12	0.45		10.80
	120-135 Bottom		1	15	0.45		6.75
	Sides		2	11	0.45		9.90



Consultant



Assistant Engineer

12/10

Assistant Executive Engineer
Kodigehalli Sub Division.

(49)

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	135-136.80 Bottom		1	1.8	0.45		0.81
	Sides		2	1.8	0.45		1.62
	RHS 0-30 Bottom		1	13	0.45		5.85
	Sides		2	11	0.45		9.90
	30-60 Bottom		1	6	0.45		2.70
	Sides		2	14	0.45		12.60
	60-90 Bottom		1	15	0.45		6.75
	Sides		2	10	0.45		9.00
	90-120 Bottom		1	11	0.45		4.95
	Sides		2	11	0.45		9.90
	120-135 Bottom		1	12	0.45		5.40
	Sides		2	11	0.45		9.90
	135-136.80 Bottom		1	1.8	0.45		0.81
	Sides		2	1.8	0.45		1.62
	3rd cross road Muneshwara Block						
	LHS 0 30 Bottom		1	5	0.45		2.25
	Sides		2	5	0.45		4.50
	30-45 Bottom		1	2	0.45		0.90
	Sides		2	2	0.45		1.80
	4th cross road RR Muneshwara Block Motappa						
	LHS 0-30 Bottom		1	12	0.45		5.40
	Sides		2	9	0.45		8.10
	30-60Bottom		1	13	0.45		5.85
	Sides		2	11	0.45		9.90
	RHS						
	30-60 Bottom		1	6	0.45		2.70
	Sides		2	11	0.45		9.90
	60-90Bottom		1	13	0.45		5.85
	Sides		2	7	0.45		6.30
	90-100 Bottom		1	14	0.45		6.30
	Sides		2	9	0.45		8.10
	5th cross road Muneshwara Block						
	LHS 60-90 Bottom		1	8	0.45		3.60
	Sides		2	12	0.45		10.80
							1251.72
	Deduct for missing slabs						306.36
						Total Qty Sqm	945.36



Consultant



Assistant Engineer

12/10

Assistant Executive Engineer
Kodigehalli Sub Division

Bill No :- 4th & Part Bill							
Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc.,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&I WTD SR 2016-17)						
Measurements recorded on:							
7th cross road Devinagara							
	LHS Drain 30-60		1.00	10.00	1.20		12.00 ✓
	60-90		1.00	8.00	1.20		9.60 ✓
6th cross Devinagara							
	LHS 0-30		1.00	8.00	1.20		9.60 ✓
	60-90		1.00	10.00	1.20		12.00 ✓
	120-135		1.00	10.00	1.20		12.00 ✓
	RHS 0-30		1.00	8.00	1.20		9.60 ✓
	60-90		1.00	7.50	1.20		9.00 ✓
	90-120		1.00	8.00	1.20		9.60 ✓
3rd cross road Muneshwara							
	LHS 0-30		1.00	7.50	1.20		9.00 ✓
	30-45		1.00	11.00	1.20		13.20 ✓
7th cross road Muneshwara Block							
	LHS 30-60		1.00	10.30	1.20		12.36 ✓
	60-90		1.00	10.00	1.20		12.00 ✓
	90-100		1.00	8.00	1.20		9.60 ✓
	RHS 30-60		1.00	2.00	1.20		2.40 ✓
Total Qty Sqm							141.96 ✓



Consultant



Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
4	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&I WTD SR 2016-17)						
	Measurements recorded on:						
	Missing slabs						
	7th cross road Devinagara						
	LHS Drain 30-60 Bottom		1	13	0.45		5.85
	Sides		2	11	0.45		9.90
	60-90 Bottom		1	10	0.45		4.50
	Sides		2	7	0.45		6.30
	RHS Drain 0-30 Bottom		1	12	0.45		5.40
	Sides		2	11	0.45		9.90
	60-90 Bottom		1	8	0.45		3.60
	Sides		2	10	0.45		9.00
	6th cross Devinagara						
	LHS 0-30 Bottom		1	14	0.45		6.30
	Sides		2	11	0.45		9.90
	30-60 Bottom		1	16	0.45		7.20
	Sides		2	8	0.45		7.20
	60-90 Bottom		1	14	0.45		6.30
	Sides		2	10	0.45		9.00
	90-120 Bottom		1	10	0.45		4.50
	Sides		2	12	0.45		10.80
	120-135 Bottom		1	15	0.45		6.75
	Sides		2	11	0.45		9.90
	135-136.80 Bottom		1	1.8	0.45		0.81
	Sides		2	1.8	0.45		1.62
	RHS 0-30 Bottom		1	13	0.45		5.85
	Sides		2	11	0.45		9.90
	30-60 Bottom		1	6	0.45		2.70
	Sides		2	14	0.45		12.60



Consultant



Assistant Engineer

29/10

Assistant Executive Engineer
Assistant Executive Engineer
Kodigehalli Sub Division

Bill No :- 4th & Part Bill							
Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	60-90 Bottom		1	15	0.45		6.75
	Sides		2	10	0.45		9.00
	90-120 Bottom		1	11	0.45		4.95
	Sides		2	11	0.45		9.90
	120-135 Bottom		1	12	0.45		5.40
	Sides		2	11	0.45		9.90
	135-136.80 Bottom		1	1.8	0.45		0.81
	Sides		2	1.8	0.45		1.62
	3rd cross road Muneshwara Block						
	LHS 0-30 Bottom		1	5	0.45		2.25
	Sides		2	5	0.45		4.50
	30-45 Bottom		1	2	0.45		0.90
	Sides		2	2	0.45		1.80
	4th cross road RR Muneshwara Block Motappa						
	LHS 0-30 Bottom		1	12	0.45		5.40
	Sides		2	9	0.45		8.10
	30-60Bottom		1	13	0.45		5.85
	Sides		2	11	0.45		9.90
	RHS						
	30-60 Bottom		1	6	0.45		2.70
	Sides		2	11	0.45		9.90
	60-90Bottom		1	13	0.45		5.85
	Sides		2	7	0.45		6.30
	90-100 Bottom		1	14	0.45		6.30
	Sides		2	9	0.45		8.10
	5th cross road Muneshwara Block						
	LHS 60-90 Bottom		1	8	0.45		3.60
	Sides		2	12	0.45		10.80
					Total Qty Sqm		306.36



Consultant



Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division

Bill No :- 4th & Part Bill							
Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
17	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD)						
	Measurements recorded on:						
	7th cross road Devinagara						
	0-30		1	3.80	0.96	0.25	0.92
	30-60		1	4.21	1.48	0.25	1.55
	60-90		1	7.23	1.45	0.25	2.62
	90-104.5		1	1.33	1.10	0.25	0.37
	6th cross Devinagara						
	0-30		1	9.00	1.40	0.25	3.15
	30-60		1	12.20	2.57	0.25	7.84
	60-90		1	2.50	2.67	0.25	1.67
	90-120		1	12.50	2.09	0.25	6.54
	120-136.8		1	9.50	1.61	0.25	3.83
	2nd cross road Devinagara						
	0-30		1	10.70	1.61	0.25	4.31
	30-40.60		1	10.80	1.51	0.25	4.08
	3rd cross road Devinagara						
	0-30		1	4.80	2.52	0.25	3.02
	30-53.9		1	6.40	2.21	0.25	3.54
	4th cross road RL Muneshwara Block Motappa						
	0-30		1	10.10	1.77	0.25	4.46
	30-60		1	14.40	2.88	0.25	10.35
	60-93.2		1	12.30	2.46	0.25	7.55
	4th cross road RR Muneshwara Block Motappa						
	0-30		1	15.00	0.93	0.25	3.47
	30-60		1	20.50	2.44	0.25	12.50
	60-90		1	5.20	2.22	0.25	2.89
	90-105.7		1	3.00	2.68	0.25	2.01
	5th cross road Muneshwara Block						
	0-30		1	9.50	1.28	0.25	3.03
	30-60		1	11.20	2.96	0.25	8.28
	60-99		1	12.00	3.11	0.25	9.34



Consultant



Assistant Engineer 27/10

Assistant Executive Engineer
Kodigehalli Sub Division

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	6th cross Road Muneshwara Block						
	0-30		1	11.30	1.62	0.25	4.57
	30-42.90		1	6.50	2.57	0.25	4.18
	7th cross road Muneshwara Block						
	0-30		1	9.10	2.11	0.25	4.80
	30-60		1	13.00	2.00	0.25	6.48
	60-90		1	6.80	2.33	0.25	3.97
	90-133.6		1	10.00	3.17	0.25	7.92
					Total Qty Cum		139.21



Consultant



Assistant Engineer

28/10

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B. D. M. S.

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
20	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&I WTD SR 2016-17)						
	Measurements recorded on:						
	7th cross road Devinagara						
	0-30		1	4.80	0.96	0.25	1.16
	30-60		1	5.21	1.48	0.25	1.92
	60-90		1	8.23	1.45	0.25	2.98
	90-104.5		1	2.33	1.10	0.25	0.64
	6th cross Devinagara						
	0-30		1	10.00	1.40	0.25	3.50
	30-60		1	13.14	2.57	0.25	8.44
	60-90		1	3.49	2.67	0.25	2.33
	90-120		1	13.54	2.09	0.25	7.08
	120-136.8		1	10.50	1.61	0.25	4.23
	2nd cross road Devinagara						
	0-30		1	11.72	1.61	0.25	4.73
	30-40.60		1	11.88	1.51	0.25	4.49
	3rd cross road Devinagara					0.25	0.00
	0-30		1	5.83	2.52	0.25	3.67
	30-53.9		1	7.39	2.21	0.25	4.09
	4th cross road RL Muneshwara Block Motappa Layout						
	0-30		1	11.17	1.77	0.25	4.93
	30-60		1	15.45	2.88	0.25	11.10
	60-93.2		1	14.38	2.46	0.25	8.82
	4th cross road RR Muneshwara Block Motappa						
	0-30		1	17.30	0.93	0.25	4.00
	30-60		1	21.59	2.44	0.25	13.17
	60-90		1	6.08	2.22	0.25	3.38
	90-105.7		1	4.05	2.68	0.25	2.71
	5th cross road Muneshwara Block						
	0-30		1	10.45	1.28	0.25	3.33
	30-60		1	12.27	2.96	0.25	9.07
	60-99		1	13.09	3.11	0.25	10.19
	6th cross Road Muneshwara Block						
	0-30		1	12.25	1.62	0.25	4.95



Consultant



Assistant Engineer 2/11

Assistant Executive Engineer
Kodigehalli Sub Division,

56

Bill No :- 4th & Part Bill

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	30-42.90		1	7.49	2.57	0.25	4.81
	7th cross road Muneshwara Block					0.25	0.00
	0-30		1	10.14	2.11	0.25	5.35
	30-60		1	14.88	2.00	0.25	7.42
	60-90		1	7.70	2.33	0.25	4.49
	90-133.6		1	13.70	3.17	0.25	10.85
					Total Qty Cum		157.82



Consultant



Assistant Engineer

Assistant Executive Engineer

Kodigehalli Sub Division

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
21	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg /sqm using mechanical means complete as per specifications.As per MORTH Specification No. 502 with all lead and lift loading and unloading and all other incidental charges etc.complete as per specification and direction of the engineer-in-charge of the work						
	Measurements recorded on:						
	7th cross road Devinagara						
	0-30		1	4.80	0.96		4.63
	30-60		1	5.21	1.48		7.68
	60-90		1	8.23	1.45		11.93
	90-104.5		1	2.33	1.10		2.56
	6th cross Devinagara						
	0-30		1	10.00	1.40		14.00
	30-60		1	13.14	2.57		33.76
	60-90		1	3.49	2.67		9.33
	90-120		1	13.54	2.09		28.31
	120-136.8		1	10.50	1.61		16.93
	2nd cross road Devinagara						
	0-30		1	11.72	1.61		18.90
	30-40.60		1	11.88	1.51		17.96
	3rd cross road Devinagara						0.00
	0-30		1	5.83	2.52		14.67
	30-53.9		1	7.39	2.21		16.34
	4th cross road RL Muneshwara Block Motappa Layout						
	0-30		1	11.17	1.77		19.71
	30-60		1	15.45	2.88		44.42
	60-93.2		1	14.38	2.46		35.30
	4th cross road RR Muneshwara Block Motappa						
	0-30		1	17.30	0.93		16.00
	30-60		1	21.59	2.44		52.66
	60-90		1	6.08	2.22		13.53
	90-105.7		1	4.05	2.68		10.83
	5th cross road Muneshwara Block						
	0-30		1	10.45	1.28		13.32
	30-60		1	12.27	2.96		36.29
	60-99		1	13.09	3.11		40.77
	6th cross Road Muneshwara Block						
	0-30		1	12.25	1.62		19.80
	30-42.90		1	7.49	2.57		19.24
	7th cross road Muneshwara Block						



Consultant



Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Malahanka Zone, B.B.M.P

Bill No :- 4th & Part Bill

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	0-30		1	10.14	2.11		21.38
	30-60		1	14.88	2.00		29.69
	60-90		1	7.70	2.33		17.96
	90-133.6		1	13.70	3.17		43.38
					Total Qty Cum		631.30

(58)



Consultant



Assistant Engineer

5/11

Assistant Executive Engineer
Kodigehalli Sub Division

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
22	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&I WTD SR 2016-17)						
	Measurements recorded on:						
	7th cross road Devinagara						
	0-30		1	30.00	(6.6+5.7+4.9)/3		172.00
	30-60		1	30.00	(4.9+4.9+5.5)/3		153.00
	60-90		1	30.00	(5.5+5.3+4.6)/3		154.00
	90-104.5		1	14.50	(4.6+5.3)/2		71.78
	6th cross Devinagara						
	0-30		1	30.00	(5.8+6.3+6.5)/3		186.00
	30-60		1	30.00	(6.5+6.2+5.8)/3		185.00
	60-90		1	30.00	(5.8+6.3+6.1)/3		182.00
	90-120		1	30.00	(6.1+5.8+5.9)/3		178.00
	120-135		1	15.00	(5.9+6.5)/2		93.00
	135-136.80		1	1.80	(6.5+7.2)/2		12.33
	2nd cross road Devinagara						
	0-30		1	30.00	(5.8+4.8+5.1)/3		157.00
	30-40.60		1	10.60	(5.1+6)/2		58.83
	3rd cross road Devinagara						
	0-30		1	30.00	(4.7+4.8+4.2)/3		137.00
	30-45		1	15.00	(4.2+4.3)/2		63.75
	45-53.9		1	8.90	(4.3+4.5)/2		39.16
	4th cross road RL Muneshwara Block Motappa						
	0-30		1	30.00	(4.8+4.5+4.5)/3		138.00
	30-60		1	30.00	(4.5+6.4+3.9)/3		148.00
	60-90		1	30.00	(3.9+3.3+5)/3		122.00
	90-93.2		1	3.20	(5+4.5)/2		15.20
	4th cross road RR Muneshwara Block Motappa						
	0-30		1	30.00	(4.2+4.1+4.1)/3		124.00
	30-60		1	30.00	(4.1+4+4.2)/3		123.00
	60-90		1	30.00	(4.2+4.1+3.9)/3		122.00
	90-105.70		1	15.70	(3.9+4.2)/2		63.59
	5th cross road Muneshwara Block						
	0-30		1	30.00	(3.5+4.3+4.2)/3		120.00
	30-60		1	30.00	(4.2+4.7+4.7)/3		136.00
	60-90		1	30.00	(4.7+4.1+4.1)/3		129.00
	90-99		1	9.00	(4.1+3.9)/2		36.00
	6th cross Road Muneshwara Block						
	0-30		1	30.00	(4.3+4.7+4.6)/3		136.00
	30-42.90		1	12.90	(4.6+4.7)/2		59.99



Consultant



Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	7th cross road Muneshwara Block						
	0-30		1	30.00	(4.1+3.6+2.7)/3		104.00
	30-60		1	30.00	(2.7+2.9+3.2)/3		88.00
	60-90		1	30.00	(3.2+3+3.1)/3		93.00
	90-105		1	15.00	(3.1+3.1)/2		46.50
	105-120		1	15.00	(3.1+3.3)/2		48.00
	120-133.6		1	13.60	(3.3+4.2)/2		51.00
							3746.12
	Deduction For Prime Coat						-631.30
					Total Qty Sqm		3114.82



Consultant



Assistant Engineer

Munew 15/11

Assistant Executive Engineer
Kodigehalli Sub Division,
Maddur Zone, B.B.M.P.

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
23	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH Chapter 5 with all lead and lift loading and unloading and all other incidental charges etc.complete as per specification and direction of the engineer-in-charge of the work						
	Measurements recorded on:						
	7th cross road Devinagara						
	0-30		1	30.00	(6.6+5.7+4.9)/3		172.00
	30-60		1	30.00	(4.9+4.9+5.5)/3		153.00
	60-90		1	30.00	(5.5+5.3+4.6)/3		154.00
	90-104.5		1	14.50	(4.6+5.3)/2		71.78
	6th cross Devinagara						
	0-30		1	30.00	(5.8+6.3+6.5)/3		186.00
	30-60		1	30.00	(6.5+6.2+5.8)/3		185.00
	60-90		1	30.00	(5.8+6.3+6.1)/3		182.00
	90-120		1	30.00	(6.1+5.8+5.9)/3		178.00
	120-135		1	15.00	(5.9+6.5)/2		93.00
	135-136.80		1	1.80	(6.5+7.2)/2		12.33
	2nd cross road Devinagara						
	0-30		1	30.00	(5.8+4.8+5.1)/3		157.00
	30-40.60		1	10.60	(5.1+6)/2		58.83
	3rd cross road Devinagara						0.00
	0-30		1	30.00	(4.7+4.8+4.2)/3		137.00
	30-45		1	15.00	(4.2+4.3)/2		63.75
	45-53.9		1	8.90	(4.3+4.5)/2		39.16
	4th cross road RL Muneshwara Block Motappa						
	0-30		1	30.00	(4.8+4.5+4.5)/3		138.00
	30-60		1	30.00	(4.5+6.4+3.9)/3		148.00
	60-90		1	30.00	(3.9+3.3+5)/3		122.00
	90-93.2		1	3.20	(5+4.5)/2		15.20
	4th cross road RR Muneshwara Block Motappa						0.00
	0-30		1	30.00	(4.2+4.1+4.1)/3		124.00
	30-60		1	30.00	(4.1+4+4.2)/3		123.00
	60-90		1	30.00	(4.2+4.1+3.9)/3		122.00
	90-105.70		1	15.70	(3.9+4.2)/2		63.59
	5th cross road Muneshwara Block						
	0-30		1	30.00	(3.5+4.3+4.2)/3		120.00
	30-60		1	30.00	(4.2+4.7+4.7)/3		136.00
	60-90		1	30.00	(4.7+4.1+4.1)/3		129.00
	90-99		1	9.00	(4.1+3.9)/2		36.00
	6th cross Road Muneshwara Block						

(61)

mt 14/11

mt 15/11



Consultant



Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division

Bill No :- 4th & Part Bill

Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	0-30		1	30.00	(4.3+4.7+4.6)/3		136.00
	30-42.90		1	12.90	(4.6+4.7)/2		59.99
	7th cross road Muneshwara Block						
	0-30		1	30.00	(4.1+3.6+2.7)/3		104.00
	30-60		1	30.00	(2.7+2.9+3.2)/3		88.00
	60-90		1	30.00	(3.2+3+3.1)/3		93.00
	90-105		1	15.00	(3.1+3.1)/2		46.50
	105-120		1	15.00	(3.1+3.3)/2		48.00
	120-133.6		1	13.60	(3.3+4.2)/2		51.00
					Total Qty Sqm		3746.12



Consultant



Assistant Engineer

15/11

Assistant Executive Engineer

Kodigehalli Sub Division

(63)

Bill No :- 4th & Part Bill							
Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
7	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&I WTD S.R 2016-17)						
Measurements recorded on:							
1st cross Devinagara							
	0-30		1	30.00	(3.9+3.8+3.2)/3	0.10	10.90
	30-47		1	17.00	(3.2+2.3+2.3)/3	0.10	4.42
	Cross road two , 12th cross		1	6.00	6.00	0.10	3.60
Total Qty Cum							18.92



[Signature]

Consultant



[Signature] 23/11

Assistant Engineer

[Signature]
Assistant Executive Engineer
Kodigehalli Zone, B.B.M.P.
Yelahanka Zone, B.B.M.P.

64

Bill No :- 4th & Part Bill							
Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
26	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggretes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal						
Measurement recorded on:							
1st cross Devinagara							
	0-30		1	30.00	(3.9+3.8+3.2)/3	0.10	16.20
	30-47		1	17.00	(3.2+2.3+2.3)/3	0.10	8.61
	Cross road two , 12th cross		1	6.60	6.60	0.10	4.36
Total Qty Cum							29.17



Consultant



Assistant Engineer

30/11

 Assistant Executive Engineer
 Kodigehalli Sub Division

(65)

Bill No :- 4th & Part Bill							
Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
27	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWD SR 2016-17)						
Measurement recorded on:							
1st cross Devinagara							
	0-30		1	30.00	(3.9+3.8+3.2)/3		109.00
	30-47		1	17.00	(3.2+2.3+2.3)/3		44.20
	Cross road two , 12th cross		1	6.60	6.60		39.60
					Total Qty Sqm		188.60



Consultant



Assistant Engineer

30/11

Assistant Executive Engineer

Kodigehalli Sub Division
Yelahanka Zone, B.B.

(66)

Bill No :- 4th and Part Bill

Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.

Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
24	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.162 I.No. 21.17.6 of PW,P&I WTD S.R 2016-17)						
	7th cross road Devinagara						
	0-30		1	4.80	1.90	0.05	0.46
	30-60		1	5.20	1.50	0.05	0.39
	60-90		1	8.30	1.60	0.05	0.66
	90-104.5		1	2.30	1.30	0.05	0.15
	6th cross Devinagara						
	0-30		1	10.00	2.30	0.05	1.15
	30-60		1	13.20	2.60	0.05	1.72
	60-90		1	3.50	3.10	0.05	0.54
	90-120		1	13.50	3.50	0.05	2.36
	120-136.8		1	10.50	3.20	0.05	1.68
	2nd cross road Devinagara						
	0-30		1	11.75	2.65	0.05	1.56
	30-40.60		1	11.90	2.50	0.05	1.49
	3rd cross road Devinagara						
	0-30		1	5.85	2.60	0.05	0.76
	30-53.9		1	7.40	2.50	0.05	0.93
	4th cross road RL Muneshwara Block Motappa Layout						
	0-30		1	11.20	2.85	0.05	1.60
	30-60		1	15.50	3.20	0.05	2.48
	60-93.2		1	14.40	2.80	0.05	2.02
	4th cross road RR Muneshwara Block Motappa						
	0-30		1	17.30	3.40	0.05	2.94
	30-60		1	24.00	3.00	0.05	3.60
	5th cross road Muneshwara Block						
	30-60		1	12.30	3.31	0.05	2.04
	Total Qty Sqm						28.51



Consultant



Assistant Engineer

Assistant Executive Engineer

Bill No :- 4th & Part Bill							
Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
25	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&I WTD S.R 2016-17)						
	Measurements recorded on:						
	7th cross road Devinagara						
	0-30		1	30.00	(6.6+5.7+4.9)/3	0.04	6.88
	30-60		1	30.00	(4.9+4.9+5.5)/3	0.04	6.12
	60-90		1	30.00	(5.5+5.3+4.6)/3	0.04	6.16
	90-104.5		1	14.50	(4.6+5.3)/2	0.04	2.87
	6th cross Devinagara						
	0-30		1	30.00	(5.8+6.3+6.5)/3	0.04	7.44
	30-60		1	30.00	(6.5+6.2+5.8)/3	0.04	7.40
	60-90		1	30.00	(5.8+6.3+6.1)/3	0.04	7.28
	90-120		1	30.00	(6.1+5.8+5.9)/3	0.04	7.12
	120-135		1	15.00	(5.9+6.5)/2	0.04	3.72
	135-136.80		1	1.80	(6.5+7.2)/2	0.04	0.49
	2nd cross road Devinagara						
	0-30		1	30.00	(5.8+4.8+5.1)/3	0.04	6.28
	30-40.60		1	10.60	(5.1+6)/2	0.04	2.35
	3rd cross road Devinagara						
	0-30		1	30.00	(4.7+4.8+4.2)/3	0.04	5.48
	30-45		1	15.00	(4.2+4.3)/2	0.04	2.55
	45-53.9		1	8.90	(4.3+4.5)/2	0.04	1.57
	4th cross road RL Muneshwara Block Motappa						
	0-30		1	30.00	(4.8+4.5+4.5)/3	0.04	5.52
	30-60		1	30.00	(4.5+6.4+3.9)/3	0.04	5.92
	60-90		1	30.00	(3.9+3.3+5)/3	0.04	4.88
	90-93.2		1	3.20	(5+4.5)/2	0.04	0.61



Consultant



Assistant Engineer

14/11/18

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.N

(68)

Bill No :- 4th & Part Bill							
Name Of work : - PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
	4th cross road RR Muneshwara Block Motappa						
	0-30		1	30.00	(4.2+4.1+4.1)/3	0.04	4.96
	30-60		1	30.00	(4.1+4+4.2)/3	0.04	4.92
	60-90		1	30.00	(4.2+4.1+3.9)/3	0.04	4.88
	90-105.70		1	15.70	(3.9+4.2)/2	0.04	2.54
	5th cross road Muneshwara Block						
	0-30		1	30.00	(3.5+4.3+4.2)/3	0.04	4.80
	30-60		1	30.00	(4.2+4.7+4.7)/3	0.04	5.44
	60-90		1	30.00	(4.7+4.1+4.1)/3	0.04	5.16
	90-99		1	9.00	(4.1+3.9)/2	0.04	1.44
	6th cross Road Muneshwara						
	0-30		1	30.00	(4.3+4.7+4.6)/3	0.04	5.44
	30-42.90		1	12.90	(4.6+4.7)/2	0.04	2.40
	7th cross road Muneshwara Block						
	0-30		1	30.00	(4.1+3.6+2.7)/3	0.04	4.16
	30-60		1	30.00	(2.7+2.9+3.2)/3	0.04	3.52
	60-90		1	30.00	(3.2+3+3.1)/3	0.04	3.72
	90-105		1	15.00	(3.1+3.1)/2	0.04	1.86
	105-120		1	15.00	(3.1+3.3)/2	0.04	1.92
	120-133.6		1	13.60	(3.3+4.2)/2	0.04	2.04
					Total Qty Sqm		149.84



Consultant



Assistant Engineer

15/11/14

Assistant Executive Engineer

Assistant Executive Engineer

Bill No :- 4th & Part Bill							
Name Of work :- PACKAGE 2 IMPROVEMENTS TO ROADS AND DRAINS CONSTRUCTION OF RO WATER PLANT BANGALURU ONE CENTER IN WARD NO. 7 AND 8 BYATARAYANAPURA DIVISION AS PER ANNEXURE GP NO UDD 217 SFC 2016 DATED 28.05.2016 WORKS SL.NO. FOR WARD NO.7, 12 TO 23 WARD NO. 8 24 TO 32.							
Name of Estimate: Improvements to Roads and Drains in Bhavi Muneshwara Temple Main Road and surrounding areas in ward No 08 - Kodigehalli, Kodigehalli Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty
30	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185,						
	Measurements recorded on:						
	Edge line						
	7th cross road Devinagara						
	0-30		2	30.00	0.10		6.00
	30-60		2	30.00	0.10		6.00
	60-90		2	30.00	0.10		6.00
	90-104.5		2	14.50	0.10		2.90
	Center line		0.5	104.50	0.10		5.23
	6th cross Devinagara						
	Edge line 0-30		2	30.00	0.10		6.00
	30-60		2	30.00	0.10		6.00
	60-90		2	30.00	0.10		6.00
	90-120		2	30.00	0.10		6.00
	120-135		2	15.00	0.10		3.00
	135-136.80		2	1.80	0.10		0.36
	Center line		0.5	136.80	0.10		6.84
	2nd cross road Devinagara						
	Center line		0.5	40.60	0.10		2.03
	3rd cross road Devinagara						
	Center line		0.5	53.90	0.10		2.70
	4th cross road RL Muneshwara Block Motappa						
	Center line		0.5	93.20	0.10		4.66
	4th cross road RR Muneshwara Block Motappa						
	Center line		0.5	105.70	0.10		5.29
	5th cross road Muneshwara Block						
	Center line		0.5	99.00	0.10		4.95
	6th cross Road Muneshwara						
	Center line		0.5	42.90	0.10		2.15
	7th cross road Muneshwara						
	Center line		0.5	133.60	0.10		6.68
					Total Qty Sqm		88.77



Consultant



Assistant Engineer

Assistant Executive Engineer

Kodigehalli Sub Division